Federal Aviation Administration, DOT

training program, and each program manager who uses a flight attendant crewmember must establish and maintain an approved flight attendant training program, that is appropriate to the operations to which each pilot and flight attendant is to be assigned, and will ensure that they are adequately trained to meet the applicable knowledge and practical testing requirements of §§91.1065 through 91.1071.

- (b) Each program manager required to have a training program by paragraph (a) of this section must include in that program ground and flight training curriculums for—
 - (1) Initial training;
 - (2) Transition training;
 - (3) Upgrade training:
 - (4) Differences training;
 - (5) Recurrent training; and
 - (6) Requalification training.
- (c) Each program manager must provide current and appropriate study materials for use by each required pilot and flight attendant.
- (d) The program manager must furnish copies of the pilot and flight attendant crewmember training program, and all changes and additions, to the assigned representative of the Administrator. If the program manager uses training facilities of other persons, a copy of those training programs or appropriate portions used for those facilities must also be furnished. Curricula that follow FAA published curricula may be cited by reference in the copy of the training program furnished to the representative of the Administrator and need not be furnished with the program.

§ 91.1099 Crewmember initial and recurrent training requirements.

No program manager may use a person, nor may any person serve, as a crewmember in operations under this subpart unless that crewmember has completed the appropriate initial or recurrent training phase of the training program appropriate to the type of operation in which the crewmember is to serve since the beginning of the 12th month before that service.

§91.1101 Pilots: Initial, transition, and upgrade ground training.

Initial, transition, and upgrade ground training for pilots must include instruction in at least the following, as applicable to their duties:

- (a) General subjects—
- (1) The program manager's flight locating procedures;
- (2) Principles and methods for determining weight and balance, and runway limitations for takeoff and landing;
- (3) Enough meteorology to ensure a practical knowledge of weather phenomena, including the principles of frontal systems, icing, fog, thunderstorms, windshear and, if appropriate, high altitude weather situations;
- (4) Air traffic control systems, procedures, and phraseology;
- (5) Navigation and the use of navigational aids, including instrument approach procedures;
- (6) Normal and emergency communication procedures;
- (7) Visual cues before and during descent below Decision Altitude or MDA; and
- (8) Other instructions necessary to ensure the pilot's competence.
 - (b) For each aircraft type-
 - (1) A general description;
 - (2) Performance characteristics;
 - (3) Engines and propellers;
 - (4) Major components;
- (5) Major aircraft systems (that is, flight controls, electrical, and hydraulic), other systems, as appropriate, principles of normal, abnormal, and emergency operations, appropriate procedures and limitations;
- (6) Knowledge and procedures for—
- (i) Recognizing and avoiding severe weather situations;
- (ii) Escaping from severe weather situations, in case of inadvertent encounters, including low-altitude windshear (except that rotorcraft pilots are not required to be trained in escaping from low-altitude windshear);
- (iii) Operating in or near thunderstorms (including best penetration altitudes), turbulent air (including clear air turbulence), inflight icing, hail, and other potentially hazardous meteorological conditions; and
- (iv) Operating airplanes during ground icing conditions, (that is, any